Oliver Stiff

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Education

Imperial College London **2017-2021**

MEng Electronic and Information Engineering (Computer Engineering)

- First-year average – 65.57%
- Second-year average – 69.59%
- Second Year relevant modules: Algorithms and Complexity (68%), Computer Architecture II (64%), Databases (73%), Digital Electronics II (69%), Software Engineering (Object Oriented Programming) (74%)
- Third Year modules: Artificial Intelligence (A-), Robotics (A*), Mathematics for Signals and Systems (A), Digital Systems Design, Embedded Systems, High Level Programming in F#, Machine Learning, Managerial Economics

Lycée Condorcet: The International French School of Sydney **2008-2017**

- French baccalaureate (Scientific): Overall 18.57/20
- Relevant subjects: Mathematics 19/20, Physics & Chemistry 18/20

Relevant Experience

Imperial College London: Undergraduate Teaching Assistant **October 2019 - Present**

- Teaching assistant for a procedural and object-oriented programming module (C++)
- Helping students understand key programming concepts as well as how to use the command line and virtual machines

ANSI C to MIPS Assembly compiler **2019**

- Used Yacc, Lex and C++ to implement a compiler as well as a C to Python translator

MIPS I CPU Simulator in C++ **2018**

- Created a simulator capable of executing MIPS I binaries with support for over 50 CPU instructions
- Devised a complete test suite used to demonstrate functionality and identify issues

Real-time face detection on an FPGA **2018**

- Designed and implemented a face detection algorithm on an FPGA as part of a team of three
- Identified and solved issues linked to hardware limitations
- Dealt with time constraints, demonstrating good teamwork and organisational skills

NICTA: National Information Communication Technology Australia **April 2015**

- Week of work experience to discover software development in a research environment
- Determined and catalogued the importance of different parameters in the estimation of emergency response and crash site clearance times

Key skills

Technical

- Coding: Proficient: C++, Python; Basic/Intermediate: Assembly (MIPS, ARM), Bash, F#, SQL, Verilog HDL
- Microsoft Office Suite

Languages

- French & English: Bilingual
- Spanish: Conversational (*CEFR B1)*

Interests and Achievements

- Member of the Student Council: Participated in meetings, acting as a mediator between students and school management – (Lycée Condorcet – 2016)
- Hiking, skiing and travelling